Certificat f Mailing

I hereby certify that this correspondence and any documents referred to as enclosed or attached is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Attn: Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria,

inia 22313-1450 on July 25th, 2003.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

§

In re Application of:

Bussear et al.

Examiner:

McCloud, R.

Serial No.:

10/047,728

99999

Filed:

01/15/02

Art Unit:

2837

For:

Apparatus and Methods for §

Using a Surface-Based

Oscillator as a Downhole

Seismic Source

Attorney Docket No.: 284-15718-US

MS: Non-Fee Amendment Commissioner for Patents

P.O. Box 1450

Alexandria, VA. 22313-1450

RESPONSE TO OFFICE ACTION **MAILED MAY 20, 2003**

Sir:

Applicant responds as follows to the office action mailed May 20, 2003:

AMENDMENTS

In the Claims:

Please cancel claim 8.

Please amend the claims as follows:

1. (First Amended) An apparatus for determining a subsurface characteristic of a formation penetrated by a wellbore, comprising: